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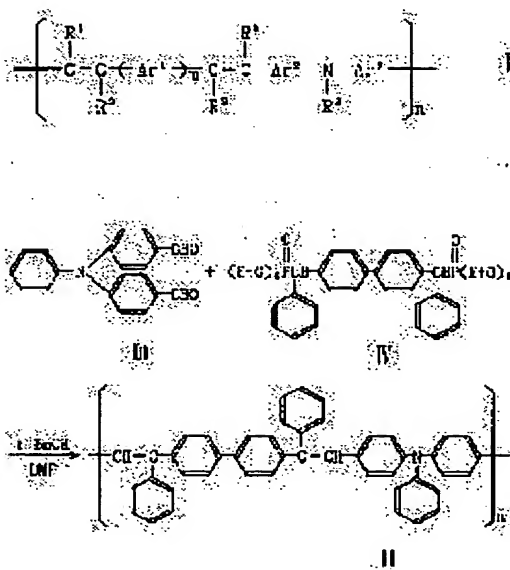
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(54) POLYSTYRYL COMPOUND AND ELECTROPHOTOGRAPHIC PHOTORECEPTOR USING THE SAME COMPOUND

(57)Abstract:

PURPOSE: To obtain a polystyryl compound useful as an electrophotographic photoreceptor having excellent charging ability and high sensitivity and capable of obtaining stable performance, because deterioration of the surface electric potential and sensitivity is small even when repeatedly used.

CONSTITUTION: A polystyryl compound expressed by formula I (Ar¹ to Ar³ are arylene or divalent heterocyclic group capable of having substituent groups; R¹ to R³ are H, halogen, alkyl, alkoxy or aryl or heterocyclic ring capable of having substituent groups; (m) is integer of 1-4; (n) is number of ≥2), e.g. a polystyryl compound having a structure expressed by formula II. The compound expressed by formula II is obtained by reacting a compound expressed by formula III with a compound expressed by formula IV in the presence of tert. BuOK and DMF. Furthermore, the electrophotographic photoreceptor containing at least one kind of the above-



mentioned compound has excellent charging properties, sensitivity characteristics, image forming properties and has only a small deterioration by fatigue and excellent use resistance, especially even when repeatedly used, and can be widely used for electrophotographic copying machine as well as photosensitive body for printer using laser, cathode-ray tube(CRT) or light emitting diode(LED) as a light source.

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